

T&R PROCESS



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Contractor Support

Why am I Here ??

1. Explain Marine Aviations Training and Readiness Process
2. Demonstrate the Core Competency Resource Model (CCRM) {Flight Hour Module} and how it might assist in developing FY-07 requirements
3. Build a Flight Hour Model for each Reserve Squadron - **Templates completed**
4. Goal - Be able to go back to your units and explain how and why you have arrived at your Flight Hour Requirements



T&R Overview

- T&R Core Model
- “The System”
 - How USMC aviation links warfighting requirements (METs), training standards (T&R), resource requirements (CCRM), and readiness reporting (SORTS T-level)
 - USMC Future Readiness Reporting Model
 - Core Competency Resource Model
- Theme *“Traceability”*
- CH-53E T&R used as an example



UTM Precepts

Unit Training Management

- MCRP 3-0A 25 Nov 1996

The Systems Approach to Training:

An orderly process for analyzing, designing, developing, implementing, and evaluating an instructional program which ensures personnel acquire the knowledge and skills essential for successful job performance.



UTM Precepts

Marine Corps Training Principles:

- Train as you fight
- Commanders are responsible for training
- Use standards-based training
- Use performance-oriented training
- Use mission-oriented training
- Train MAGTF to fight as a combined arms team
- Train to sustain proficiency
- Train to challenge

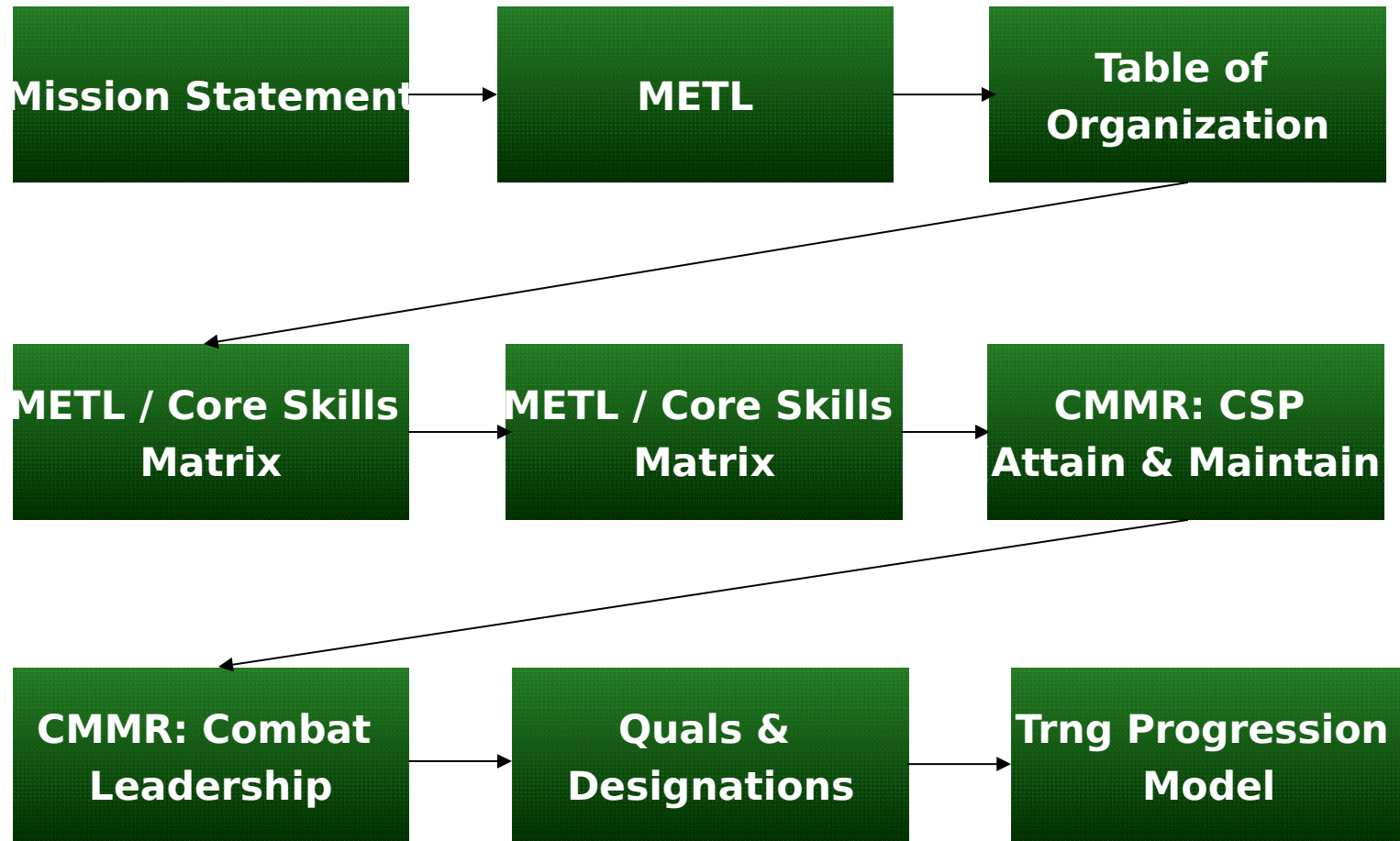


Core Model Structure

- Mission
- Mission Essential Task List
- Table of Organization
- Core Capability Statement
- METL/Core Skill Matrix
- Core Model Minimum Requirements
- Unit Core Skill Proficiency Requirements
 - Individual CSP
 - Events Required to Attain
 - Events Required to Maintain
 - Combat Leadership Requirements
- Qualifications And Designations Tables
- Training Progression Model



Traceability



HMH Mission

Support the MAGTF Commander by providing assault support transport of heavy equipment, combat troops, and supplies, day or night under all weather conditions during expeditionary, joint, or combined operations.



Mission Essential Task List

- a. (UJTL TA 1.1.2) Conduct Shipboard Deck Helicopter Landing Qualifications.
- b. (UJTL TA 1.1.4) Conduct Sea and Air Deployment Operations.
 - (1) Maintain the capability to deploy and operate from advanced bases, expeditionary airfields, Forward Operating Bases (FOBs), and naval shipping.
 - (2) Maintain the capability to conduct extended range operations employing aerial refueling.
 - (3) Perform organizational maintenance on assigned aircraft.



Table of Organization

SQUADRON

16 Aircraft

38 Pilots

26 Crew Chiefs

26 Aerial Observers/Aerial Gunners



Core Capability Statement

- A core capable CH-53 unit is able to sustain the number of sorties listed below on a daily basis during contingency/combat operations. The sortie rates are based on 1.8 hour average sortie duration and **assumes > 70 percent FMC aircraft and > 90 percent T/O aircrew on hand. If unit FMC aircraft < 70 percent or T/O aircrew < 90 percent, core capability will be degraded by a like percentage.** A core capable unit is able to accomplish all tasks designated in the unit METL from a main base, expeditionary base, or amphibious platform.

Core Capability Continued

- a. Core Capable Squadron. A core capable CH-53E squadron is able to sustain 27 sorties.
- b. Core Capable Reserve Squadron. A core capable Reserve squadron is able to sustain 14 sorties.
- c. Core Capable Squadron (-). A core capable squadron (-) is able to sustain 21 sorties.
- d. Core Capable Detachment. A core capable detachment is able to sustain 7 sorties.



METL/Core Skill Matrix



METL	CH53E PILOT/EAC												
	FAM/ INST	INT	FORM	CAL	TERP	EXT	GTR	AR	FCLP	AG	TAC	NS HLL	NS LLL
a. Conduct Shipboard Deck Landing Qualifications	X		X	X					X			X	X
b. Conduct Sea and Air Deployment Operations	X	X	X	X	X	X	X	X	X	X	X	X	X
c. Conduct Air Assault Operations and Air Assault	X	X	X	X	X	X	X	X	X	X	X	X	X
d. Conduct Amphibious Assault and Raid Operations	X	X	X	X	X	X	X	X	X	X	X	X	X
e. Distribute Supplies and Provide Transport Service	X	X	X	X	X	X	X	X	X	X	X	X	X
f. Conduct Joint Logistics Over-The-Shore Operations (JLOTS)	X	X	X	X	X	X	X	X	X	X	X	X	X
g. Conduct Joint Personnel Recovery	X	X	X	X	X		X	X	X	X	X	X	X
h. Conduct Noncombatant Evacuation	X	X	X	X	X		X	X	X	X	X	X	X



Attain Core Skill Proficiency

(1) Events Required to Attain Individual CSP. To initially attain CSP, a pilot must successfully complete all of the T&R events listed in the chart below for that core skill.

CH-53E PILOT ATTAIN CORE SKILL PROFICIENCY (CSP)												
CORE SKILL	FAM/ INST	FORM	CAL	TERF	EXT	GTR	AR	FCLP	TAC	AG	NS HLL	NS LLL
T&R Event Requirements to Attain CSP	S200R	210R	220	230	240	S250	S260	S270	290	280R	S202	320
	201R		221R	231R	241R	350R	360	271	390R	380R	211R	321R
	S202				242R		361R	272			222	322R
					S340		362R	273R			223R	330
					341R						224R	331R
					343R						232R	342R
											233R	391R
											243	
											244R	
											291R	



Maintain Core Skill Proficiency

(2) Events Required to Maintain Individual CSP. To maintain CSP, a pilot must maintain proficiency in all of the T&R events listed in the chart below for that core skill.

CH-53E PILOT MAINTAIN CORE SKILL PROFICIENCY (CSP)												
CORE SKILL	FAM/ INST	FORM	CAL	TERF	EXT	GTR	AR	FCLP	TAC	AG	NS HLL	NS LLL
T&R Event Requirements to Maintain CSP	201R	210R	221R	231R	241R	350R	361R	273R	390R	280R	211R	321R
					341R		362R			380R	223R	331R
					343R						233R	342R
											244R	391R
											291R	



Combat Leadership

n Combat Leader Requirements. As a minimum, in order to be Core Competent, a unit must possess the following number of the listed flight leadership designations.

Squadron	
DESIGNATION	Pilots
<u>HAC</u>	16
<u>SEC LDR</u>	9
<u>DIV LDR</u>	6
<u>FLT LDR</u>	5
<u>AMC</u>	4

Reserve Squadron	
DESIGNATION	Pilots
<u>HAC</u>	12
<u>SEC LDR</u>	8
<u>DIV LDR</u>	6
<u>FLT LDR</u>	4
<u>AMC</u>	2



Instructor Requirements

8. Instructor Requirements. A squadron should possess the following numbers of aircrew with the listed instructor designations per this Manual and MCO 3500.12C (WTTP).



Squadron			
INSTRUCTOR DESIGNATION	Pilots	Crew Chiefs	AO/AGs
TERFI	8	8	
DMI	4	4	
NSI	6	6	
WTI	3	3	
AGI	NA		6 *
ARI	6	-	
TGI	NA		2 *
*AO/AG designated as AGIs may be used to fulfill this requirement.			

Reserve Squadron			
INSTRUCTOR DESIGNATION	Pilots	Crew Chiefs	AO/AGs
TERFI	4	3	
DMI	2	2	
NSI	3	3	
WTI	2	2	
AGI	-		3 *
TGI	NA		1 *
ARI	3	-	

Status

- Attain – An individual who is attaining Core Skill Proficiency
- Maintain – An individual who is maintaining Core Skill Proficiency
- All personnel undergoing training are either attaining or maintaining Core Skill Proficiency



Program of Instruction (POI) {Attain}

- POI - An individual syllabus that provides for Basic, Transition, Conversion, and Refresher personnel who are attaining Core Skill Proficiency
- Transition, Conversion and Refresher syllabi may have fewer required training events than basic POIs to account for previous experience
- Individuals are assigned to one POI



POIs - Types

- Basic
 - Newly designated personnel
- Transition
 - Changing aircraft/MACCS agency ‘types.’
Types: FW jet, VSTOL jet, RW, FW transport, and tiltrotor
- Conversion
 - Converting from one ‘model’ aircraft/system to another within the specific aircraft/unit type described above.
- Refresher
 - Returning to an operational force billet, who have previously been assigned to the basic POI of that MOS syllabus



T&R Syllabi

- Tiered Progression
- Designed to build Individual & Unit Proficiency in Core Skills
 - CORE SKILLS - Specific mission-related task areas that support a community's METL



Syllabus Structure

Phases/Stages/Events

- PHASES are subdivided into STAGES. STAGES are subdivided into EVENTS
- PHASE - A group of stages/events delineating one of four T&R syllabus tiers
- STAGE - A group of similar T&R events (like Core Skill events) in numerical sequence within a Phase
- EVENT - A flight or ground training evolution required by an individual syllabus



T&R Phases

- **Core Skill Introduction (100 level)** - Basic platform/system employment ; introduces core skills
- **Core Skill Basic (200 level)** - Basic core skill training
- **Core Skill Advanced (300 level)** - Advanced core skill training
- **Core Plus (400 level)** - Skills contained in this level are associated with high risk, low probability of execution, and/or are theater specific



T&R Phases

- Instructor Training (500 level). Instructor training includes Instructor Under Training (IUT) POIs, ACTI, ACMI, NSI, and others. T&R syllabi shall refer to the MAWTS-1 course catalog for instructor event requirements delineated in the MAWTS-1 course catalog.
- Requirements, Qualifications and Designations Tracking Codes/Events (600 level). Utilized for training management purposes.



Event

FORM-210

1.0

R,SC 2 CH-53

Goal. Conduct day formation and introduce tactical formation maneuvering.

Requirement

Discuss:

- CRM.
- Comfort level.
- Closure rates.
- Formation maneuvers: Break turns, center turns, pinch/dig, cover, ~~tag~~ turns, in-place turns, split turns, and cross turns.
- Combat spread, combat cruise, and parade positions.
- Cruise Turn principles.
- Recovery from unusual attitudes.
- Loss of visual contact.
- Lost communications.
- Inadvertent IMC procedures.
- High density altitude.
- High AOB turns/aerodynamics performance.
- Inter- and intra-aircraft communications.
- Lead changes; include EMCON lead change.

Introduce:

- Inadvertent IMC breakup and rendezvous.
- Break turns, center turns, pinch/dig, cover, ~~tag~~ turns, in-place turns, split turns, and cross turns.
- Combat spread and combat cruise formations.

Review:

- Parade position.
- Cruise principles.
- Crossovers.
- Full COMM and no COMM lead changes.

Performance Standards. Successfully execute all TACFORM maneuvers as lead and wingman IAW ANTP 3-22.3-CH53. Successfully execute inadvertent IMC breakup and rendezvous IAW RW TACSOP.



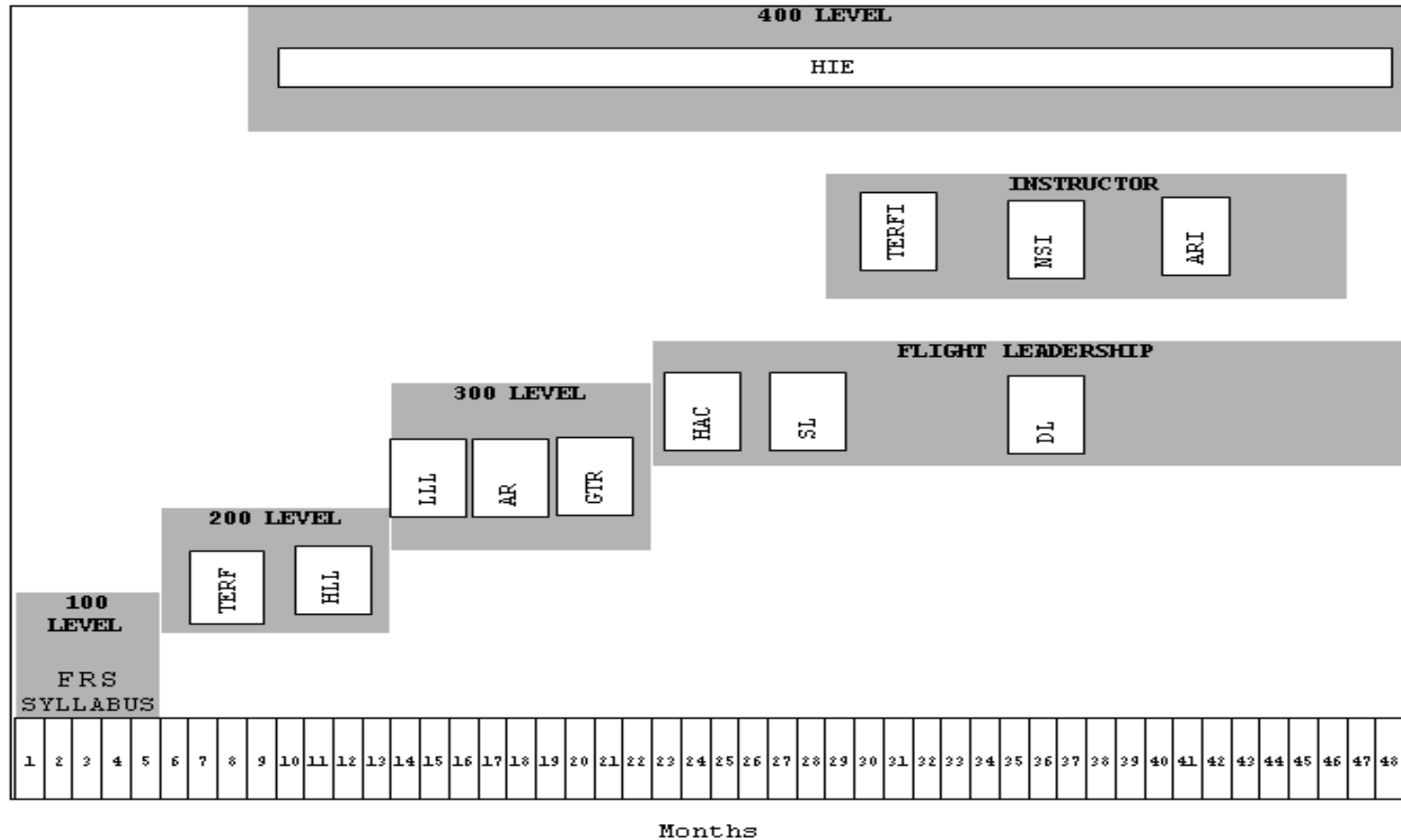
MOS Syllabus Matrix

CH-53 PILOT															
200 SERIES CORE SKILL BASIC															
STAGE	TRNG CODE	FLT HOURS	SIM HOURS	REFLY INT	DEVICE	# OF A/C	CONDITIONS	PREREQ	POI	EVAL	CRP 7566	CRP 7564	CHAINING	EVENT DESC	OLD CODE
FAM/INST															
FAM/INST	200		1.5	*	S		(N)		R, SC		0.2	0.2		SIM FLIR	200
FAM/INST	201	1.5		365	A	1	(N)	200	R		0.2	0.2		A/C FAM	201
FAM/INST	202		1.5	*	S/A		NS				0.2	0.2		NS FAM	200
											0.6	0.6			
FORM															
FORM	210	1.0		365	A	2			R, SC		0.5	0.5		2 A/C DAY FORM	210
FORM	211	1.0		180	A	2	NS	210,222	R		0.8	0.8	210	2 A/C HLL FORM	211
											1.3	1.3			
CAL															
CAL	220	1.5		365	A	1		201			0.5	0.5		1 A/C DAY CAL	220
CAL	221	1.5		365	A	2		210,220	R, SC		0.5	0.5	210,220	2 A/C DAY CAL	221
CAL	222	1.5		180	A	1	NS	202,220			1.0	1.0	220	1 A/C HLL CAL	222



Training Progression Model

9. Training Progression Models. The CH-53 training progression model provides community recommended core skill, qualification, and designation attainment timelines for the average crewmember.



CH-53 Unit Core Skill Proficiency

CH-53E CORE SKILLS															CH-53E CORE PLUS SKILLS										
METL	FAM / INST	INT	FORM	CAL	TERF	EXT	GTR	AR	FCLP	AG	TAC	MS HLL	MS LLL	HIE	INT (TBF \$)	GT R	DM	N B C	CQ	M TG	TG	TAC			
a. Conduct Shipboard Deck Landing Qualifications	X		X	X					X			X						X	X						
b. Conduct Sea and Air Deployment Operations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
c. Conduct Air Assault Operations and Air Assault	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
d. Conduct Amphibious Assault and Raid Operations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
e. Distribute Supplies and Provide Transport Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
f. Conduct Joint Logistics Over-The-Shore Operations (JLOTS)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
g. Conduct Joint Personnel Recovery	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
h. Conduct Noncombatant Evacuation	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CH-53E Unit CSP Requirements Squadron					CH-53E Unit CSP Requirements Squadron (-) (Less 4 plane detachment)					CH-53E Unit CSP Requirements Reserve Squadron					CH-53E Unit CSP Requirements 4 Plane Detachment										
CORE SKILL	PILOTS	CHIEF S	AO/AG	CREWS	CORE SKILL	PILOTS	CHIEF S	AO/AG	CREWS	CORE SKILL	PILOTS	CHIEF S	AO/AG	CREWS	CORE SKILL	PILOTS	CHIEF S	AO/AG	CREWS						
FAM/INT	32	-	-	16	FAM/INT	24	-	-	16	FAM/INT	18	-	-	9	FAM/INT	8	-	-	4						
INT	-	12	12	12	INT	-	8	8	8	INT	-	6	6	6	INT	-	4	4	4						
FORM	24	12	12	12	FORM	16	8	8	8	FORM	12	6	6	6	FORM	8	4	4	4						
CAL	24	12	12	12	CAL	16	8	8	8	CAL	12	6	6	6	CAL	8	4	4	4						
TERF	24	12	12	12	TERF	16	8	8	8	TERF	12	6	6	6	TERF	8	4	4	4						
EXT	24	12	12	12	EXT	16	8	8	8	EXT	12	6	6	6	EXT	8	4	4	4						
GTR	24	12	12	12	GTR	16	8	8	8	GTR	12	6	6	6	GTR	8	4	4	4						
AR	12	-	-	12	AR	8	-	-	4	AR	6	3	3	3	AR	4	-	-	4						
FCLP	24	12	12	12	FCLP	16	8	8	8	FCLP	12	6	6	6	FCLP	8	4	4	4						
AG	16	-	-	8	AG	12	-	-	6	AG	8	-	-	4	AG	4	-	-	4						
TAC	16	8	8	8	TAC	12	6	6	6	TAC	6	3	3	3	TAC	4	2	2	2						
MS HLL	24	12	12	12	MS HLL	16	8	8	8	MS HLL	12	6	6	6	MS HLL	8	4	4	4						
MS LLL	16	8	8	8	MS LLL	12	6	6	6	MS LLL	6	3	3	3	MS LLL	4	2	2	2						
HIE	8	4	4	4	HIE	6	3	3	3	HIE	4	2	2	2	HIE	4	2	2	2						
INT	-	-	4	4	INT	-	-	4	4	INT	-	-	2	2	INT	-	-	1	1						
GTR	16	8	8	8	GTR	12	6	6	6	GTR	8	4	4	4	GTR	8	4	4	4						
DM	16	8	8	8	DM	12	6	6	6	DM	8	4	4	4	DM	8	4	4	4						
MBC	16	8	8	8	MBC	12	6	6	6	MBC	8	4	4	4	MBC	4	2	2	2						
CQ	16	8	8	8	CQ	10	5	5	5	CQ	8	4	4	4	CQ	8	4	4	4						
MTG	-	-	6	6	MTG	-	-	6	6	MTG	-	-	4	4	MTG	-	-	4	4						
TG	-	-	3	3	TG	-	-	6	6	TG	-	-	4	4	TG	-	-	4	4						
TAC	16	8	8	8	TAC	12	6	6	6	TAC	6	3	3	3	TAC	4	2	2	2						
COMBAT LEADERSHIP																									
Squadron					Reserve Squadron					Squadron (-)					Detachment										
DESIGNATION		PILOTS			DESIGNATION		PILOTS			DESIGNATION		PILOTS			DESIGNATION		PILOTS								
HAC		16			HAC		12			HAC		12			HAC		4								
SECTION LEADER (SEC LDR)		8			SECTION LEADER (SEC LDR)		8			SECTION LEADER (SEC LDR)		8			SECTION LEADER (SEC LDR)		4								
DIVISION LEADER (DIV LDR)		8			DIVISION LEADER (DIV LDR)		8			DIVISION LEADER (DIV LDR)		8			DIVISION LEADER (DIV LDR)		4								
FLIGHT LEADER (FLT LDR)		5			FLIGHT LEADER (FLT LDR)		4			FLIGHT LEADER (FLT LDR)		4			FLIGHT LEADER (FLT LDR)		3								
AIR MISSION COMMANDER (AMC)		4			AIR MISSION COMMANDER (AMC)		2			AIR MISSION COMMANDER (AMC)		3			AIR MISSION COMMANDER (AMC)		1								
INSTRUCTOR																									
Squadron					Reserve Squadron					Squadron (-)					Detachment										
INSTRUCTOR DESIGNATION		PILOT S		CHIEF S		AO/AG			INSTRUCTOR DESIGNATION		PILOT S		CHIEF S		AO/AG			INSTRUCTOR DESIGNATION		PILOT S		CHIEF S		AO/AG	
TERFI		8		8		-			TERFI		4		3		-			TERFI		2		2		-	
DMI		4		4		-			DMI		2		2		-			DMI		1		1		-	
NSI		6		6		-			NSI		3		3		-			NSI		1		1		-	

CH-53E CSP / CH-53E /

4

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CH-53E Individual Core Skill Proficiency

PILOT								CREW CHIEF							
CORE SKILL	TRNG CODE	ATTAIN			MAINTAIN			CORE SKILL	TRNG CODE	ATTAIN			MAINTAIN		
		CORE SKILL	TRAINING CODE	REFLY INTERVAL	CORE SKILL	TRAINING CODE	REFLY INTERVAL			CORE SKILL	TRAINING CODE	REFLY INTERVAL	CORE SKILL	TRAINING CODE	REFLY INTERVAL
SFAM / INST	200	FAM / INST	200	*	FAM / INST										
FAM / INST	201		201	365		201	365								
FAM / INST	202		202	*											
FORM	210	FORM	210	365	FORM	210	365			FORM	210	365	FORM	210	365
CAL	220	CAL	220	365	CAL					CAL	220	365	CAL		
CAL	221		221	365		221	365	220		CAL	221	365		221	365
TERF	230	TERF	230	365	TERF					TERF	230	365	TERF		
TERF	231		231	365		231	365	230		TERF	231	365		231	365
EXT	240	EXT	240	365	EXT					EXT	240	365	EXT		
EXT	241		241	365		241	365	240		EXT	241	365			
EXT	242		242	365						EXT	242	365			
										EXT	243	180			
SEXT	340		340	*						EXT	244	180		244	180
EXT	341		341	365		341	365	240		EXT	342	180		342	365
EXT	343		343	180		343	180	242, 240		EXT	343	180		343	180
SGTR	250	GTR	250	*	GTR					GTR			GTR		
GTR	350		350	365		350	365				350	365		350	365
SRR	260	AR	260	*	AR					AR			AR		
AR	360		360	*											
AR	361		361	180		361	180								
AR	362		362	180		362	180	361							
SFCLP	270	FCLP	270	*	FCLP					FCLP			FCLP		
FCLP	271		271	365							271	365			

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CCRM Umbrella

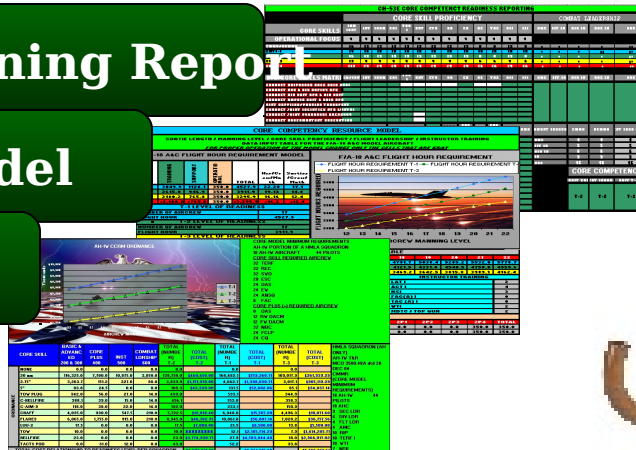
CCRM is not just the FHM
Designed for good...



Core Model Training Report

Flight Hour Model

Ordnance Model



Resources!

Ranges

Targets

Aggressors

HSTs

Ext Loads

External Support

READINESS REPORTING

CH-53E CORE COMPETENCY READINESS REPORTING																	
	CORE SKILL PROFICIENCY													COMBAT LEADERSHIP			
CORE SKILLS	FAM INST	INT	FORM	CAL	TERF	EXT	GTR	AR	CQ	AG	TAC	HLL	LLL	AMC	FLT LD	DIV LD	SEC LD
OPERATIONAL FOCUS	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
CMMR/ACMMR	16	12	12	12	12	12	12	12	12	8	8	12	8	4	5	6	9
CMTL-1	19	15	15	15	15	15	15	15	15	10	10	15	10	5	6	7	11
CMTL-2	16	12	12	12	12	12	12	12	12	8	8	12	8	4	5	6	9
CMTL-3	13	9	9	9	9	9	9	9	9	6	6	9	6	3	4	5	7
CMTL-4	<13	<9	<9	<9	<9	<9	<9	<9	<9	<6	<6	<9	<6	<3	<4	<5	<7
METL/CORE SKILLS MATRIX	FAM/INST	INT	FORM	CAL	TERF	EXT	GTR	AR	CQ	AG	TAC	HLL	LLL	AMC	FLT LD	DIV LD	SEC LD
CONDUCT SHIPBOARD DECK HELO QUAL																	
CONDUCT SEA & AIR DEPLOY OPS																	
CONDUCT AIR ASLT OPS & AIR ASLT																	
CONDUCT AMPHIB ASLT & RAID OPS																	
DIST SUPPLIES/PROVIDE TRANSPORT																	
CONDUCT JOINT LOGISTICS OTS (JLOTS)																	
CONDUCT JOINT PERSONNEL RECOVERY																	
CONDUCT NONCOMBATANT EVACUATION																	
CORE CAPABILITY PERCENTAGE				CORE SKILLS		CMMR	ACMMR	CSP PILOTS	CSP CC	CSP AO/AG	CSP CREWS	COMBAT LEADERS		CMMR	ACMMR		
	O/H	T/O	%T/O	FAM/INST		16	16	32	-	-	16	AMC		4	4		
PILOTS	38	38	1.00	INT		12	12	-	12	12	12	FLT LD		5	5		
CREW CHIEFS	26	26	1.00	FORM		12	12	24	12	12	12	DIV LD		6	6		
AERIAL OBS/GUN (16ACFT*1.6)	26	26	1.00	CAL		12	12	24	12	12	12	SEC LD		9	9		
CREWS	19	19	1.00	TERF		12	12	24	12	12	12	HAC		16	16		
1. If %T/O >= .90, then CMMR is used for CMTL Development				EXT		12	12	24	12	12	12	CORE COMPETENCY					
2. If %T/O < .90, then ACMMR [(%T/O)(CMMR)] is used for CMTL Development.				GTR		12	12	24	12	12	12						
				AR		12	12	24	-	-	12						
				CQ		12	12	24	12	12	12						
Excess CC shall be added to AO/AG to Maximize Total "CREWS"				AG		8	8	16	8	6	8						
Crew Definition: 2 Pilots, 1CC, 1AO/AG [Exceptions:FAM/INST & AR - 2Pilots only; INT-ICC/AO/AG only; (In all cases, CC can fulfill AO/AG crew requirement.)]				TAC		8	8	16	8	8	8						
				HLL		12	12	24	12	12	12						
				LLL		8	8	16	8	8	8						
												UNIT CSP		CBT LDRSHP			
												T-2		T-2			

Core Competency **Resource** Model

- CCR**M**
 - Flight Hour Model
 - T&R “traceability”
 - Identify assumptions; admit imperfections
 - Do no harm...



CH-53E FLIGHT HOURS

CORE COMPETENCY RESOURCE MODEL

SORTIE LENGTH / MANNING LEVEL / CORE SKILL PROFICIENCY / FLIGHT LEADERSHIP / INSTRUCTOR TRAINING
DATA INPUT TABLE FOR THE CH-53E MODEL AIRCRAFT
FOR PROPER OPERATION OF THE MODEL CHANGE ONLY THE CELLS THAT ARE GRAY

HQMC TOTALS

	TRAINING	SUPPORT	OPERATIONAL	TOTAL	Hrs/Crew/Mnth	Sortie/Crew/Mnth
T-1	3199.6	1164.5	0.0	4364.1	21.39	14.3
T-2	2743.5	980.7	0.0	3724.2	18.26	12.2
T-3	2287.4	796.9	0.0	3084.3	15.12	10.1
T-4	<2,287.4	<796.9	0.0	<3,084.3	<15.12	<10.1

T-1 LEVEL OF READINESS

NUMBER OF AIRCREW	34
FLIGHT HOURS	4364.1

T-2 LEVEL OF READINESS

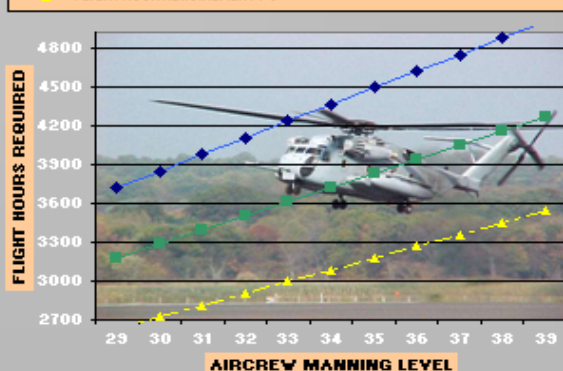
NUMBER OF AIRCREW	34
FLIGHT HOURS	3724.2

T-3 LEVEL OF READINESS

NUMBER OF AIRCREW	34
FLIGHT HOURS	3084.3

CH-53E FLIGHT HOUR REQUIREMENT

FLIGHT HOUR REQUIREMENT T-1
FLIGHT HOUR REQUIREMENT T-2
FLIGHT HOUR REQUIREMENT T-3



CH-53E FLIGHT HOUR / READINESS TABLE

AIRCREW MANNING LEVELS	29	30	31	32	33	34	35	36	37	38	39					
FLIGHT HOUR REQUIREMENT T-	3722.3	3850.7	3979.0	4107.4	4235.7	4364.1	4492.5	4620.8	4749.2	4877.5	5005.9					
FLIGHT HOUR REQUIREMENT T-	3176.5	3286.1	3395.6	3505.1	3614.7	3724.2	3833.7	3943.3	4052.8	4162.3	4271.9					
FLIGHT HOUR REQUIREMENT T-	2630.7	2721.4	2812.2	2902.9	2993.6	3084.3	3175.0	3265.7	3356.4	3447.2	3537.9					
SORTIE LENGTH	1.5	FLIGHT LEADERSHIP					INSTRUCTOR TRAINING									
MANNING INPUT		NATOPS EVALUATION				34	TERF I				8					
BASIC	8.0	INSTRUMENT EVALUATION				34					6					
REFRESHER	3.0	SECTION LEADER				9	ARI				6					
SERIES CONVERSION	1.0	DIVISION LEADER				6	DMI				4					
MAINTAIN / AUGMENT	22.0	FLIGHT LEADER				5	VTI				3					
TOTAL AIRCREW	34.0	MISSION COMMANDER				4										
STAFF AIRCREW	3.0															
CSP (-) AIRCREW	11.0															
OPERATIONAL																
	2M1	2M2	2M3	2M4	2M5	2M6	2Q4	2P1	2P2	2P3	2P4	TOTAL				
UNIT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				

INSTRUCTIONS FOR THE OPERATION OF THE CORE COMPETENCY RESOURCE MODEL (CCRM)

The CCRM was developed for HQMC to validate the resources (flight hours) required for a squadron to obtain and maintain CORE Skill Proficiency. This model captures all flight events contained within the CH-53E Training and Readiness manual; MCO P3500.51 (Interim Approved) and the MAVTS-1 Course Catalog. An additional reference is the (draft) order on the Marine Corps Flying Hour Program Management MCO P3125.1.

The model reflects a 12 month snapshot out of a 36 month training cycle. It includes refl factors for individual events and a 20% factor for training anomalies (weather, range, aircraft cancellations etc.) Only the items highlighted in light grey may be changed by the operator. The remaining cells and workbook are read only protected.

CELL E25 The number of Basic, Transition, and Conversion pilots that will be trained during the 12 month period.

CELL E26 The number of Refresher pilots that will be trained during the 12 month period.

CELL E27 The number of Series Conversion (CH-53D to CH-53E) pilots that will be trained during the 12 month period.

CELL E28 The number of pilots within a unit that need to maintain CORE Skill Proficiency during the 12 month period.

Note: Cell E29 is the summation of the number of Basics, Refreshers, Series Conversion, and Maintainers: Cell E29 = E25+E26+E27+E28.

CELL E30 The number of Staff Aircrew the unit must fly during the course of the 12 month period (100 hours per year).

CELL E31 CSP(-) AIRCREW: The number of aircrew that will check out during the course of the 12 month period. This number is automatically generated. It equals the number of Basics and Refreshers that enter the squadron.

CELL E31 = CELLS E25 + E26.

FLIGHT LEADERSHIP CELLS J-24 THROUGH J-29

Number of NATOPS / Instrument evaluations. The number of Flight/Combat Leadership (Section Ldr, Division Ldr, etc.) designations the unit wants to build during the 12 month period.

INSTRUCTOR TRAINING CELLS O-24 THROUGH O-28

The number of Instructor Designations the unit wants to build during the 12 month period.

OPERATIONAL CELLS D34 THROUGH N34

The amount of Operational Flight Hours devoted to the TMR codes in accordance with HQMC DC/A msg(s)

CMC WASHINGTON DC AVN/3020002OCT2003 &

CMC WASHINGTON DC AVN/0418082MAR2003.

Units using SARA version 5.0 (or later) may produce historical data based on these TMR codes as an aid in estimating future operational requirements.